PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 10589-33-228	FOR FURTHER ACTION		Form PCT/ISA/220 re applicable, item 5 below.
International application No. PCT/US04/09574	International filing date (day/o 26 March 2004 (26.03.2004)	nonth/year)	(Earliest) Priority Date (day/month/year) 27 March 2003 (27.03.2003)
Applicant PTC THERAPEUTICS, INC.			
according to Article 18. A copy is being This international search report consists of	transmitted to the Internationa	l Bureau.	thority and is transmitted to the applicant n this report.
Basis of the Report a. With regard to the language, the language in which it was filed, u			sis of the international application in the
	l search was carried out on the brity (Rule 23.1(b)).	asis of a trans	lation of the international application
b. With regard to any nucleoti	de and/or amino acid sequenc	e disclosed in	the international application, see Box No. I.
2. Certain claims were found	unsearchable (See Box No. II)	1	
3. Unity of invention is lacking	ng (See Box No. III)		
4. With regard to the title,	sitted by the applicant		
the text is approved as subm		1	
the text has been established	I by this Authority to read as fol	lows:	
	ı		
5. With regard to the abstract,			
the text is approved as subm	itted by the applicant.		
	_		as it appears in Box No. IV. The applicant in report, submit comments to this Authority.
6. With regard to the drawings, a. the figure of the drawings to be p	published with the abstract is Fi	gure No.	<u>.</u>
as suggested by the	applicant.		
as selected by this A	authority, because the applicant	failed to sugge	est a figure.
as selected by this A	authority, because this figure be	ter characteriz	zes the invention.
b. none of the figures is to be pu	ublished with the abstract.		

Form PCT/ISA/210 (first sheet) (January 2004)

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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of i			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically.			
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
	ional Searching Authority found multiple inventions in this international application, as follows: ontinuation Sheet			
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
. - -				
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark on I	Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.			

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/09574

IPC(7) US CL	SSIFICATION OF SUBJECT MATTER : A01N 61/00; C12Q 1/00; G01N 33/566, 573 A1 : 435/4, 6, 7.2, 7.21, 41, 69.2, 91.3, 183; 514/1, 1 International Patent Classification (IPC) or to both na	2		
B. FIELI	DS SEARCHED	Monday Option And It of		
Minimum do	cumentation searched (classification system followed 55/4, 6, 7.2, 7.21, 41, 69.2, 91.3, 183; 514/1, 2	by classification symbols)		
Documentati	on searched other than minimum documentation to the	extent that such documents are included in	n the fields searched	
	ta base consulted during the international search (namontinuation Sheet	e of data base and, where practicable, sear	ch terms used)	
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a		Relevant to claim No.	
Х	US 5,726,195 A (HILL et al.) 10 March 1998, see et	ntire patent.	29-32, 40, 41	
x	WO 01/25486 A1 (RANA) 12 April 2001, see entire document, especially the abstract, 29-32, 40, 41			
Y	examples and claims.		1-28, 33-39	
x	WO 02/083837 A1 (ALMSTEAD) 24 October 2002	, see entire document, especially the	29-32, 40, 41	
<u> </u>	abstract, examples and claims.		1-28, 33-39	
X Y	WO 02/083953 A1 (RANDO et al.) 24 October 2002, see entire document, especially the abstract, examples and claims.		29-32, 40, 41 ————— 1-28, 33-39	
Y	VAUGHAN, M.D. et al. Methionine In and Out of Current Medicinal Chemistry, 2002, Vol. 9, No. 3, p	Proteins: Targets for Drug Design. pages 385-409, see entire article.	1-41	
Further	documents are listed in the continuation of Box C.	See patent family annex.		
• s	pecial categories of cited documents:	"T" later document published after the interm and not in conflict with the application b		
"A" document particular	defining the general state of the art which is not considered to be of	principle or theory underlying the invent		
•	olication or patent published on or after the international filing date	"X" document of particular relevance; the class considered novel or cannot be considered when the document is taken alone		
	which may throw doubts on priority claim(s) or which is cited to he publication date of another citation or other special reason (as	"Y" document of particular relevance; the cla considered to involve an inventive step v with one or more other such documents,	when the document is combined	
"O" document	referring to an oral disclosure, use, exhibition or other means	to a person skilled in the art		
	published prior to the international filing date but later than the te claimed	"&" document member of the same patent far	nily 	
	ctual completion of the international search	Date of mailing of the international search 09 JUN 2005	ch report	
	5 (04.04.2005) uiling address of the ISA/US		0	
Mai Con	Stop PCT, Attn: ISA/US umissioner for Patents	Authorized officer Mark L. Shibuya Bell - Hoursof		
Alex	Box 1450 tandria, Virginia 22313-1450 (703) 305-3230	Telephone No. (571) 272-1600		



International application No. PCT/US04/09574

ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	WANG, M.J. et al. Substrate Masking: Binding of RNA by EGTA-Inactivated Micrococcal Nuclease Results in Artifactual Inhibition of RNA Processing Reactions. Nucleic Acids Research, 1990, Vol. 18, No. 22, pages 6625-6631, see entire publication, especially the abstract, pages 6625-6626, bridging paragraph, page 6626, paragraph, 6, page 6627, paragraph 8.	1-41
Y	LI, H. et al. Crystal Structure and Evolution of a Transfer RNA Splicing Enzyme. Science, April 1998, Vol. 280, No. 10, pages 279-284, see entire article.	1-41
Y	HYDE-DERUYSCHER, R. et al. Detection of Small-Molecule Enzyme Inhibitors with Peptides Isolated from Phage-Displayed Combinatorial Peptide Libraries. Chemistry & Biology, 2000, Vol. 7, pages 17-25, see entire article, especially the abstract, Table I and pages 23-24.	1-41
Y	ABELSON, J. et al. tRNA Splicing. Journal of Biological Chemistry, May 1998, Vol. 273, No. 21, pages 12685-12688, see entire article.	1-41
Y	TROTTA, C.R. et al. The Yeast tRNA Splicing Endonuclease: A Tetrameric Enzyme with Two Active Site Subunits Homologous to the Archaeal tRNA Endonuclease. Cell, June 1997, Vol. 89, pages 849-858, see entire article.	1-41
	* * *	





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BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-28 and 33-39, drawn to methods for identifying a compound that modulates fungal tRNA splicing endonuclease activity.

Group II, claim(s) 29-32, 40 and 41, drawn to methods of preventing, treating, managing or ameliorating a fungal infection by administering an antiproliferative compound identified by the Group I method.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the methods of Groups I and II are distinctly different methods drawn to different method objectives. The antifungal compounds of Group II and derived from the Group I methods do not represent a "special" technical feature because antifungal compounds are known in the art. See e.g., WO 02/083953A1; WO 02/083837A1; and WO 01/25486A1.

Continuation of B. FIELDS SEARCHED Item 3: WEST:-PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD. STN: CAPLUS, EMBASE, BIOSIS, MEDLINE, WPIDS